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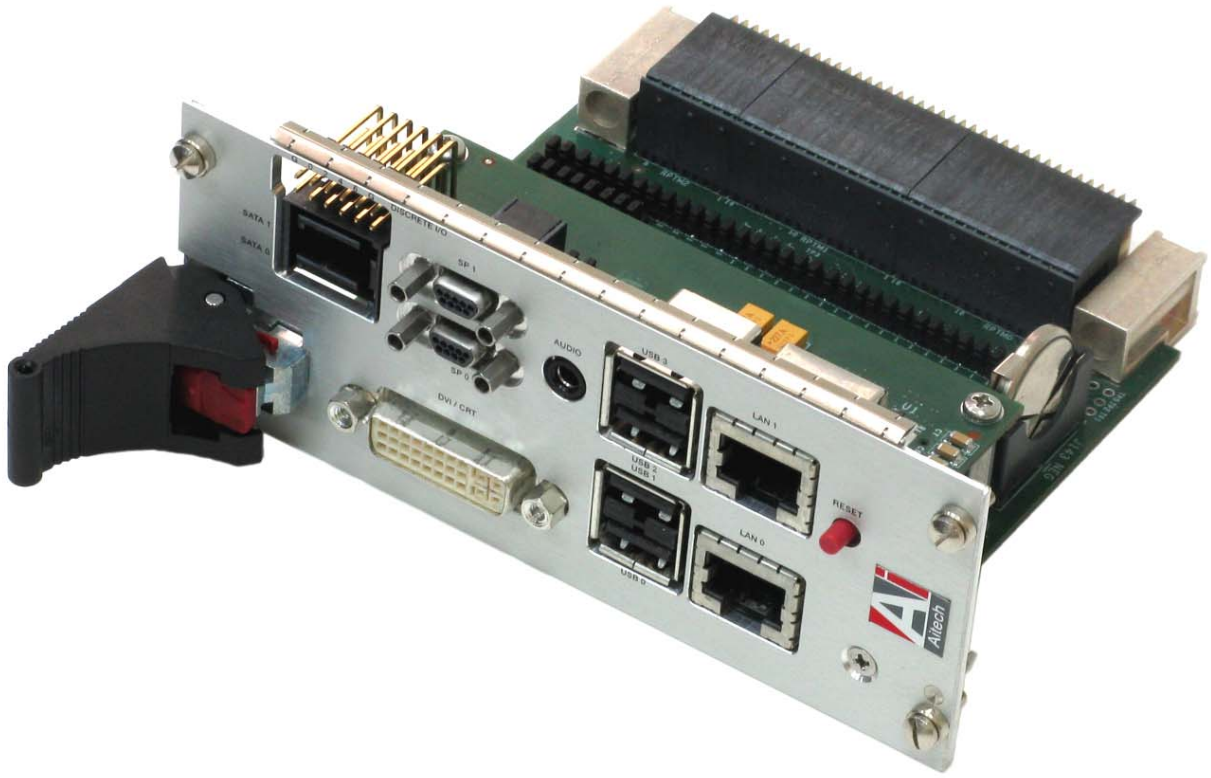
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Find the *Aitech Defense Systems TM870* at our website: *Click HERE*

TM870

Transition Module for the C870 3U VPX SBC



- **Provides Standard Connections for All C870 I/O Interfaces**
- **High Speed Connector Provides Access to All XMC/PMC I/O Pins on C870 SBC or CM870 XMC/PMC Carrier**
- **81.5 mm Module Depth Fully Compliant with ANSI/VITA 46.10-2009**
- **Rear Plug-in**
- **Reset Pushbutton**
- **RTC Backup Battery**
- **Jumpers for I/O Routing Configuration**

Aitech Defense Systems, Inc.
A member of the Aitech Rugged Group
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TM870 Transition Module

Aitech's TM870 is provided as a complement to the C870 Core i7 Duo 3U VPX SBC.

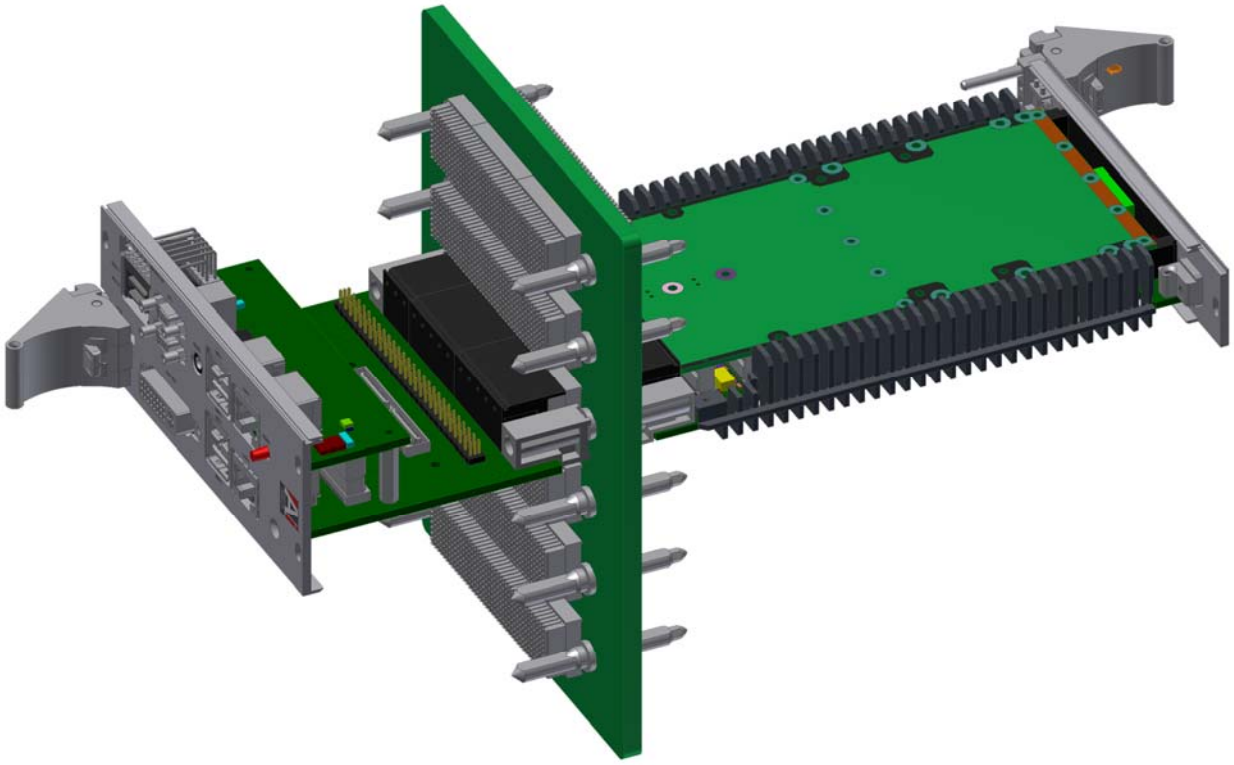
The transition module provides standard direct connection to all the C870 I/O interfaces and is intended for use in commercial air-cooled chassis. The TM870 eliminates the need for any harnessing and complex cabling fixtures in order to connect to the C870.

In addition, the transition module provides a high speed connector for convenient access to I/O signals for XMC/PMC mounted on the C870 SBC or CM870 XMC/PMC carrier.

The TM870 fully complies with ANSI/VITA 46.10-2009, and supports subracks that accommodate rear plug-in units.

The transition module also provides jumpers to allow I/O routing for the C870 shared I/O pins.

The following figures illustrate the TM870 location in the system.



Functional Description

System Support

The TM870 is designed for enclosures a rear module depth of 81.5 mm, as specified in ANSI/VITA 46.10-2009. The TM870 may be adapted for use with enclosures whose rear module depth is greater than 81.5 mm by adding an extender (not included).

In order to accommodate all of the required I/O connectors, the TM870 front panel occupies two slots.

I/O Connectors

The transition module provides standard connectors for all C870 I/O interfaces. These connectors include the following:

- Four USB 2.0 type A connectors
- Two modular RJ45 jacks for the two Gigabit Ethernet ports
- 10-pin 90° header for 8 discrete I/O channels (4 differential pairs)
- Two 9-pin Micro-D-type connectors for the two serial I/O ports
- DVI-I jack for RGBHV and DVI interfaces
- RCA stereo jack for stereo line-out/line-in audio
- Dual SATA 7-pin connector for SATA interface

XMC/PMC I/O

A high speed connector provides convenient access to all of the I/O pins for XMC/PMC mounted on the C870 or CM870 XMC/PMC carrier.

Reset Pushbutton

The transition module has a reset pushbutton on the front panel.

Configuration Jumpers

Jumpers enable users to configure TM870 I/O routing to match the various C870 I/O configurations.

RTC Backup battery

The TM870 includes a battery to provide long term power backup to the C870 RTC when power is not applied to the board. Under normal use, the battery will last for many months before it must be replaced.

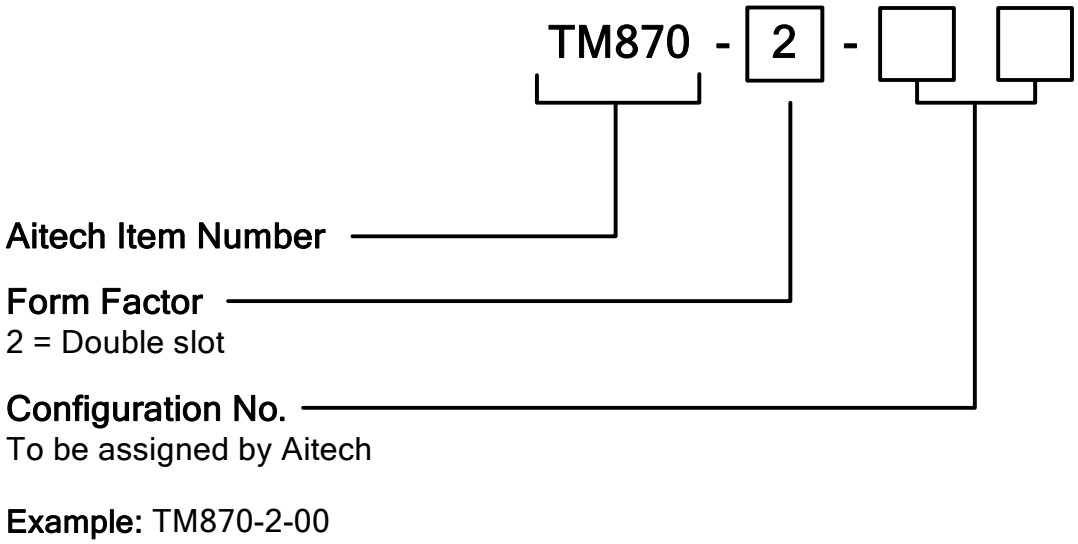
Mechanical Features

The TM870 fully complies with ANSI/VITA 46.10-2009

Dimensions

- Standard 3U, 81.5mm depth
- All dimensions per ANSI/VITA 46.10-2009 - double slot front panel.

Ordering Information for the TM870



Example: TM870-2-00

For more information about the TM870 or any Aitech product, please contact Aitech Defense Systems sales department at (888) Aitech-8 (248-3248).

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